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APPLICANT: MEIDENSHA CORP;

INVENTOR:

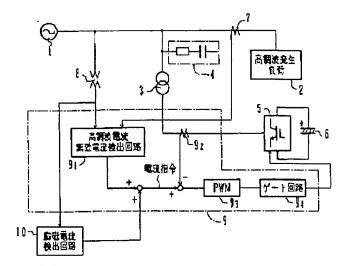
MAEKAWA HIDEHIRO;

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TITLE

: ACTIVE FILTER



ABSTRACT :

PROBLEM TO BE SOLVED: To compensate for distortions due to the excutation current of a transformer by obtaining the excitation current waveform of the transformer, including a core material in a magnetic flux density waveform, that is obtained from the primary voltage waveform of the transformer and adding the compensation current of an active filter to it.

SOLUTION: When harmonics and reactive current generated by a load 2 are detected by a detection circuit 9₁ of a control circuit 9, the gate signal of a PWM waveform is generated by a PWM circuit 93 with it as a compensation current instruction, the gate control of an inverter main circuit 5 is made by a gate circuit 94, and a compensation current from the inverter main circuit 4 is supplied to a power line via the transformer 3, an excitation current detection circuit 10 detects the primary voltage waveform of the transformer 3 as the excitation current waveform of the transformer 3 and adds it to the compensation current, thus compensating for the current corresponding to excitation of the transformer 3.

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